

CLAIM AMENDMENTS

Claims 1-36 (canceled).

Claim 37 (new): A plastic water and beverage bottle adapted for preserving a liquid, comprising:

a liquid container, which is made of plastic materials, comprising a plastic made container body having a liquid chamber for storing said liquid therein and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber; and

a protective arrangement integrally provided on said liquid container, comprising:

an anti-germ mixture which comprises a nano titanium oxide integrally formed on said liquid container for blocking ultra-violet light from entering into said liquid chamber of said liquid container; and

a far infrared ray emitter, which has a weight ratio of 1:1 to said nano titanium oxide, and comprises ceramic powder thoroughly mixing with said nano titanium oxide, wherein said anti-germ mixture is integrally mixed with said plastic material to become a compound material as a raw material integrally forming said container body and said container cap of said liquid container, wherein said far infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid, in such a manner that said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claim 38 (new): The plastic water and beverage bottle, as recited in claim 37, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said plastic material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said plastic material of said liquid container.

Claim 39 (new): The plastic water and beverage bottle, as recited in claim 38, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 40 (new): A process of manufacturing a plastic water and beverage bottle which comprises the steps of:

(a) providing a plastic material suitable to form a liquid container for containing liquid therein;

(b) mixing a predetermined amount of ceramic powders of far infrared ray emitter with a nano titanium oxide to form an anti-germ mixture as a protective arrangement of said liquid container, wherein said nano titanium oxide is for blocking ultra-violet light entering into a liquid chamber of said liquid container, and said infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid, wherein a weight ratio of said nano titanium oxide to said far infrared ray emitter is 1:1;

(c) mixing said plastic material with said anti-germ mixture to form a compound material as a raw material; and

(d) forming said liquid container by said raw material, wherein said liquid container comprises a plastic made container body having said liquid chamber and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber, wherein said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claim 41 (new): The process, as recited in claim 40, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said plastic material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said plastic material of said liquid container.

Claim 42 (new): The process, as recited in claim 41, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.